

DATE: April 28th, 2021

FROM: Andrew J. Heath, P.E., State Traffic Engineer

TO: Divisions of Engineering, Permits/Operations, Local Grants/Field Districts, Construction, TIA and P3/Program Delivery and Maintenance

SUBJECT: GDOT ITS and Traffic Signal Construction Standards

Several GDOT ITS and Traffic Signal Details have been updated for consistency with the updated Section 631, 647, 694, 925, 926, 935, 936, 937, 939, and 942 Standard Specifications. These updates also include modifications of diagrams for simplification and clarity. The details have completed the Federal Highway Administration (FHWA) approval process.

The following ITS and Traffic Signal Details have been published:

- GDOT Detail: ITS-01 (ITS Legend)
- GDOT Detail: ITS-51A (Ramp Meter Installation - Single Lane Meter Details)
- GDOT Detail: ITS-51B (Ramp Meter Installation - Dual Lane Meter Details)
- GDOT Detail: ITS-51C (Ramp Meter Installation - Triple Lane Meter Details)
- GDOT Detail: ITS-64 (ITS Cabinet Details)
- GDOT Detail: ITS-65 (ITS – Dynamic Message Sign)
- GDOT Detail: TS-00 (Traffic Signals – Legend)
- GDOT Detail: TS-01A (Inductive Loop Detector Installation, Sheet #1)
- GDOT Detail: TS-01B (Inductive Loop Detector Installation, Sheet #2)
- GDOT Detail: TS-02 (Prefabricated Cabinet Base)
- GDOT Detail: TS-03 (Pedestrian Facilities Installation)
- GDOT Detail: TS-04A (Traffic Signal Support Structures, Sheet #1)
- GDOT Detail: TS-04B (Traffic Signal Support Structures, Sheet #2)
- GDOT Detail: TS-05 (Strain Pole and Mast Arm Foundations)
- GDOT Detail: TS-06 (Grounding for Traffic Signal Support Structures)
- GDOT Detail: TS-07 (Utility Clearance)
- GDOT Detail: TS-08 (Guying)
- GDOT Detail: TS-09 (Fiber Optics Installation)
- GDOT Detail: TS-10A (Flashing Beacon Assembly Span Wire Installation)
- GDOT Detail: TS-10B (Flashing Beacon Assembly Post Mounted Installation)

These details supersede each corresponding detail (as noted below) revised prior to 2021. Effective with the May 2021 Letting, the Georgia Department of Transportation requires that the above noted GDOT Construction Details are to be used on state routes

in Georgia. These standards may be used before the May 2021 letting if the Engineer of Record elects to do so.

This policy may affect other GDOT published documents on the subject. Therefore, I am directing all Divisions to review and, if necessary, modify or remove any existing policies or documents that may be inconsistent with this policy.

cc: Federal Highway Administration, Georgia Division
American Council of Engineering Companies (ACEC)/Georgia Chapter
Georgia Highway Contractors Association (GHCA)
Institute of Transportation Engineers (ITE)/Georgia Chapter

SUMMARY OF NEW GEORGIA CONSTRUCTION DETAILS

April 28, 2021

NEW STANDARDS: ITS Legend

GDOT Construction Detail ITS-01 (ITS Legend)

- Updated legend symbols to represent new technology

NEW STANDARDS: Ramp Meter Installation

Note: The above noted standard is currently two Construction Details named “ITS-51 Ramp Meter Installation Details (1 of 2)” and “ITS-53 Ramp Meter Installation Details – Three Lane”. These Detail will be replaced with the ITS-51A, ITS-51B, and ITS-51C Construction Standards. The original ITS-51 and ITS-53 are for use as Maintenance and Repairs only.

GDOT Construction Detail ITS-51A (Ramp Meter Installation - Single Lane Meter)

GDOT Construction Detail ITS-51B (Ramp Meter Installation - Dual Lane Meter)

GDOT Construction Detail ITS-51C (Ramp Meter Installation - Triple Lane Meter)

- The Single, Dual, and Triple Lane configurations are provided on separate details
- Instructions on network communications and routing fiber optic and video cabling are provided.
- Revised General Notes section.

NEW STANDARDS: ITS Cabinet

Note: The above noted standard is currently three Construction Detail named “ITS-14 Type C Cabinet Details”, “ITS-15 Type D Cabinet Details”, and “ITS-16 Type F Cabinet Details”. These details will be replaced with the ITS-64 Construction Standard. The original ITS-14, ITS-15, and ITS-16 are for use as Maintenance and Repairs only.

GDOT Construction Detail ITS-64 (ITS Cabinet Details)

- Revised diagrams for simplification and clarification
- Consolidated duplicated information from previous details

NEW STANDARDS: Dynamic Message Sign

GDOT Construction Detail ITS-65 (ITS Dynamic Message Sign)

- The new Standard provides diagrams to show the requirements for placement of DMS signs on Type I (Sign Bridge) or Type III (Butterfly) support structures.

- Provided General Notes section on information for installation, manufacturer requirements, and sign placement.

NEW STANDARDS: Traffic Signal - Legend

GDOT Construction Detail TS-00 (Traffic Signal - Legend)

- New detail provides a legend for Traffic Signal Design Plans

NEW STANDARDS: Inductive Loop Detector Installation

GDOT Construction Detail TS-01A (Inductive Loop Detector Installation)

GDOT Construction Detail TS-01B (Inductive Loop Detector Installation)

- Revised the original detail to separate diagrams between two details: “Plan Views and Wire Plans” and “Conduit Entrance, Splice, Edge of Pavement, and Curb Details”
- Consolidated notes for a General Notes section
- Revised diagrams for consistency with updated specifications

NEW STANDARDS: Prefabricated Cabinet Base

Note: The above noted standard is currently a Construction Detail named “TS-03 Cabinet Base Detail”. This Detail will be replaced with the TS-02 Construction Standards.

GDOT Construction Detail TS-02 (Prefabricated Cabinet Base)

- Revised diagrams for simplification and clarification

NEW STANDARDS: Pedestrian Facilities Installation

Note: The above noted standard is currently a Construction Detail named “TS-03A Pedestrian Facilities Installation Details”. This Detail will be replaced with the TS-03 Construction Standards. The original TS-03A is for use as Maintenance and Repairs only.

GDOT Construction Detail TS-03 (Pedestrian Facilities Installation)

- Revised diagrams for simplification and clarification
- Revised diagrams for consistency with updated specifications

NEW STANDARDS: Traffic Signal Support Structures

Note: The above noted standard is currently two Construction Detail named “TS-04 Details of Metal Traffic Signal Support Structures” and “TS-05 Details of Concrete Poles”. These Details will be replaced with the TS-04A and TS-04B Construction Details. The original TS-04 and TS-05 are for use as Maintenance and Repairs only.

GDOT Construction Detail TS-04A (Traffic Signal Support Structures)

GDOT Construction Detail TS-04B (Traffic Signal Support Structures)

- Revised diagrams for simplification and clarification
- Revised diagrams for consistency with updated specifications
- Revised General Notes Section

NEW STANDARDS: Strain Pole and Mast Arm Foundations

Note: The above noted standard is currently a Construction Detail named “TS-06 Details of Strain Pole and Mast Arm Foundations”. This Detail will be replaced with the TS-05 Construction Standards. The original TS-06 is for use as Maintenance and Repairs only.

GDOT Construction Detail TS-05 (Strain Pole and Mast Arm Foundations)

- Revised diagrams for simplification and clarification

NEW STANDARDS: Grounding for Traffic Signal Support Structures

Note: The above noted standard is currently a Construction Detail named “TS-07 Grounding Details for Traffic Signal Support Structures”. This Detail will be replaced with the TS-06 Construction Standards. The original TS-07 is for use as Maintenance and Repairs only.

GDOT Construction Detail TS-06 (Grounding for Signal Support Structures)

- Revised diagrams for simplification and clarification
- Revised diagrams for consistency with updated specifications
- Added diagram for layout of span wire grounding

NEW STANDARDS: Utility Clearance

Note: The above noted standard is currently a Construction Detail named “TS-08 Utility Clearance Detail”. This Detail will be replaced with the TS-07 Construction Standards. The original TS-08 is for use as Maintenance and Repairs only.

GDOT Construction Detail TS-07 (Utility Clearance)

- Revised diagrams for simplification
- Revised diagrams for consistency with updated specifications

NEW STANDARDS: Guying

Note: The above noted standard is currently a Construction Detail named “TS-09 Standard Guying Details”. This Detail will be replaced with the TS-08 Construction Standards. The original TS-09 is for use as Maintenance and Repairs only.

GDOT Construction Detail TS-08 (Guying)

- Revised diagrams for simplification and clarification

NEW STANDARDS: Fiber Optics Installation

Note: The above noted standard is currently a Construction Detail named “TS-10 Fiber Optic Details (Sheet 1 of 2)”. This Detail will be replaced with the TS-09 Construction Standards. The original TS-10 is for use as Maintenance and Repairs only. TS-11 Fiber Optic Details (Sheet 2 of 2) shall remain as the Construction Standard for drop cable splicing and fiber optic distribution.

GDOT Construction Detail TS-09 (Fiber Optics Installation)

- Revised diagrams for simplification and clarification
- Revised diagrams for consistency with updated specifications

NEW STANDARDS: Flashing Beacon Assemblies

Note: The above noted standard is currently two Construction Details named “TS-12A Flashing School Assembly Spanwire Installation” and “TS-12B Flashing School Assembly Post Mounted Installation”. These Detail will be replaced with the TS-10A and TS-10B Construction Standards. The original TS-12A and TS-12B are for use as Maintenance and Repairs only.

GDOT Construction Detail TS-10A (Flashing Beacon Assembly Span Wire Installation)

GDOT Construction Detail TS-10B (Flashing Beacon Assembly Post Mounted Installation)

- Revised General Notes section.
- Revised diagrams for simplification and clarification
- Revised diagrams for consistency with updated specifications